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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
J. Yun Tso, et al.

Appl. No.: 10/812,366

Filed: March 26, 2004

For: **ANTI-PLEIOTROPHIN ANTIBODIES
AND METHODS OF USE THEREOF**

Art Unit: 1641

Confirmation No. 3678

Examiner: Not Yet Assigned

Atty. Docket: 05882.0114.NPUS01

Information Disclosure Statement

Mail Stop Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed;
 - ☐ a. Within three months of the U.S. filing date of a national application other than a continued prosecution application under §1.53(d);
 - ☐ b. Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
 - c. Before the mailing date of a first Office Action on the merits;
 - ☐ d. Before the mailing of a first Office Action after filing of a request for continued examination under § 1.115.

No statement under 37 C.F.R. § 1.97(e) or fee is required.

or;

- ☐ 2. This Information Disclosure Statement is being filed after the period specified in paragraph 1(a)-1(d) above, but before the mailing date of a Final Rejection or Notice of Allowance, or action that otherwise closes prosecution in the application, and
 - ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
 - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent

office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2), or

- ☐ c. Attached is our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. Attached is our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(i), and
 - ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
 - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 4. Relevance of the non-English language document(s) is discussed in the present specification.

- ☐ 5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- ☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application Nos. _____, each of which is directed to related technical subject matter. The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number **05882.0114.NPUS01**.

Respectfully submitted,



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August 31, 2005

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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) PTO FORM 1449	ATTY. DOCKET NO. 05882.0114.NPUS01	APPLICATION NO. 10/812,366
	APPLICANT J. Yun Tso	
	FILING DATE March 26, 2004	GROUP *

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1.	5,770,421					
	2.	2002/034768A1					
	3.	2003/073623A1					
	4.	2003/158132A1					
	5.	2003/202960A1					
FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	6.	WO0196394A2					
	7.	WO0020869A1					
	8.	EP91870003.0	5-21-1997				
	9.	EP89101187.6	9-22-1993				
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	10.	Aigner, et al., "Delivery of Unmodified Bioactive Ribozymes by an RNA-Stabilizing Polyethylenimine (LMW-PEI) Efficiently Down-Regulates Gene Expression", <i>Gene Therapy</i> , 9:1700-1707 (2002)					
	11.	Amet, et al., "Enhanced Hippocampal Long-Term Potentiation in Mice Lacking Heparin-Binding Growth-Associated Molecule", <i>Mol. Cell. Neuro.</i> , 17:1014-1024 (2001)					
	12.	Chauhan, et al., "Pleiotrophin Transforms NIH 3T3 Cells and Induces Tumors in Nude Mice", <i>Proc. Natl. Acad. Sci. USA</i> , 90:679-682 (1993)					
	13.	Choudhuri, et al., "An Angiogenic Role for the Neurokinins Midkine and Pleiotrophin in Tumorigenesis", <i>Can. Res.</i> 57:1814-1819 (1997)					
	14.	Czubayko, et al., "Ribozyme-Targeting Elucidates a Direct Role of Pleiotrophin in Tumor Growth", <i>J. Bio. Chem.</i> , 269(33):21358-21363, (1994)					
	15.	Czubayko, et al., "Melanoma Angiogenesis and Metastasis Modulated by Ribozyme Targeting of the Secreted Growth Factor Pleiotrophin", <i>Proc. Natl. Acad. Sci.</i> , 93:14753-14758 (1996)					
	16.	Fang, et al., "Pleiotrophin Stimulates Fibroblasts and Endothelial and Epithelial Cells and is Expressed in Human Cancer", <i>J. Bio Chem.</i> , 267(36):25889-25897 (1992)					
	17.	Jager, et al., "Differential Expression and Biological Activity of the Heparin-Binding Growth-					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

<p align="center">LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i></p> <p align="center">PTO FORM 1449</p>	ATTY. DOCKET NO. 05882.0114.NPUS01	APPLICATION NO. 10/812,366
	APPLICANT J. Yun Tso	
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		Associated Molecule (HB-GAM) in Lung Cancer Cell Lines", <i>Int. J. Cancer</i> , 73:537-543 (1997)
	18.	Jager, et al., "Serum Levels of the Angiogenic Factor Pleiotrophin in Relation to Disease Stage in Lung Cancer Patients ", <i>British J of Cancer</i> , 86:858-863 (2002)
	19.	Klomp, et al., "Significance of the Expression of the Growth Factor Pleiotrophin in Pancreatic Cancer Patients", <i>Clinical Cancer Res.</i> , 8:823-827 (2002)
	20.	Muramatsu, "Midkine and Pleiotrophin: Two Related Proteins Involved in Development, Survival, Inflammation and Tumorigenesis", <i>J. Bio. Chem.</i> , 132:359-371 (2002)
	21.	Nakagawara, et al., "Differential Expression of Pleiotrophin and Midkine in Advanced Neuroblastomas", <i>Can. Res.</i> , 55:1792-1797 (1995)
	22.	Schulte, et al., "Human Trophoblast and Choriocarcinoma Expression of the Growth Factor Pleiotrophin Attributable to Germ-Line Insertion of an Endogenous Retrovirus", <i>Proc. Natl. Aacd. Sci. USA</i> , 93:14579-14764 (1996)
	23.	Sette, et al., "Structural Characteristics of an Antigen Required for its Interaction with Ia and Recognition by T Cells", <i>Nature</i> , 328:395-399 (1987)
	24.	Seykora, et al., "Gene Expression Profiling of Melanocytic Lesions", <i>Am. J. of Dermatopathology.</i> , 25(1):6-11 (2003)
	25.	Vacherot, et al., "Involvement of Heparin Affin Regulatory Peptide in Human Prostate Cancer", <i>The Prostate</i> , 38:126-136 (1999)
	26.	Weber, et al., "Pleiotrophin Can be Rate-Limiting for Pancreatic Cancer Cell Growth", <i>Can. Res.</i> , 60:5284-5288 (2000)
	27.	Wellstein, et al., "A Heparin-Binding Growth Factor Secreted from Breast Cancer Cells Homologous to a Developmentally Regulated Cytokine", <i>J. Biol. Chem.</i> , 267(4):2582-2587 (1992)

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.